Python

Cycle - 1

1)Display future leap years from the current year to a final year entered by the user.

Code:

6) Store a list of first names. Count the occurrences of ‘a’ within the list

Code:

li = []

n=input("number")

for i in range(0,n):

li.append(input("Enter first names : "))

count=0

for i in range(0,n):

for j in range(0,len(li[i])):

if li[i][j]=='a':

count = count+1

print "Occurance of 'a' within the list : ", count

7) Enter 2 lists of integers. Check;

(a) Whether lists are of the same length.

(b) whether the list sums to the same value.

(c) whether any value occurs in both.

Code:

li1=[]

li2=[]

sum1=sum2=flag=0

n1 = input("Size of list one : ")

for i in range(0,n1):

li1.append(int(input("Enter list one elements: ")))

sum1=sum1+li1[i]

n2 = input("size of list two : ")

for i in range(0,n2):

li2.append(int(input("Enter list two elements : ")))

sum2=sum2+li2[i]

l1 = len(li1)

l2 = len(li2)

if l1==l2:

print"Same length :",l1

else:

print"Diffrent length!!!!!!!"

if sum1==sum2:

print"Sums are equal :",sum1

else:

print"Sums are not equal!!!!!!1"

def same(li1,li2):

r=0

for i in range(0,n2):

for j in range(0,n2):

if li1[i]==li2[j]:

r=1

return r

return r

p=same(li1,li2)

if(p==1):

print"some elements are common in both"

else:

print"Nothing is common"

8) Get a string from an input string where all occurrences of first character replaced with,’

‘$’, except for the first character.

[eg: onion -> oni$n]

Code:

li=[]

str=input("enter string : ")

print(str)

li=list(str)

print(li[0])

for i in range(1,len(li)):

if li[i]==li[0]:

li[i]='$'

print(li[:])

9) Create a string from a given string where first and last characters are exchanged. [eg: python -> nythop]

Code:

str=input("enter string")

li=[]

li=list(str)

n=len(str)

temp=li[n-1]

li[n-1]=li[0]

li[0]=temp

print(li[:])

10) Accept the radius from the user and find the area of the circle.

Code:

pi = 3.14

r = int(input("Enter radius : "))

a = r\*r

a = a\*pi

print("Area of circle: ",a)

11) Find the biggest of 3 numbers entered.

Code:

n1 = int(input("enter number 1 : "))

n2 = int(input("enter number 2 : "))

n3 = int(input("enter number 3 : "))

if n1>n2 and n1>n3:

print("Largest is - ",n1)

elif n2>n3:

print("Largest is - ",n2)

else:

print("Largest is - ",n3)

12) Accept a file name from the user and print extension of that.

Code:

import os

f=input("Enter file name")

# this will return a tuple of root and extension

s = os.path.splitext(f)

f\_exte = s[1]

print("File Extension: ", f\_exte)

13) Create a list of colors from comma-separated color names entered by the user. Display first and last colors.

Code:

li=[]

n = int(input("number of colors :"))

for i in range(0,n):

li.append(input("Enter color: "))

print("First color : ",li[0])

print("Last color : ",li[n-1])